

Experiment Number: 404915

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Amyl nitrite

CAS Number: 463-04-7

Date Report Requested: 09/14/2018

Time Report Requested: 17:08:54

NTP Study Number:

404915

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	88 ± 1.7	99 ± 5.8	124 ± 1.7	145 ± 9.4	111 ± 9.3
100.0	92 ± 1.8		132 ± 4.2	131 ± 8.8	191 ± 7.8
333.0	88 ± 7.2		132 ± 2.1	175 ± 8.8	201 ± 11.5
1000.0	126 ± 1.9	146 ± 7.0	154 ± 6.0	296 ± 22.1	212 ± 18.0
1667.0		151 ± 4.5			
3333.0	180 ± 9.9	149 ± 10.6	171 ± 8.4	295 ± 12.2	356 ± 37.0
6667.0		195 ± 5.2			
10000.0	Toxic	Toxic	193 ± 9.1 ^P	355 ± 9.6	263 ± 28.4
Trial Summary	Positive	Positive	Weakly Positive	Positive	Positive
Positive Control ²			2510 ± 29.7	2130 ± 266.4	748 ± 93.1
Positive Control ³	1379 ± 20.5	1803 ± 141.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	120 ± 12.4	177 ± 5.8	201 ± 12.7	117 ± 19.3
100.0	122 ± 13.3	133 ± 13.0	166 ± 6.9	127 ± 16.9
333.0	142 ± 7.0	139 ± 11.6	170 ± 14.0	172 ± 8.8
1000.0	158 ± 6.2	257 ± 26.0	142 ± 25.4	154 ± 17.4
1667.0				
3333.0	185 ± 6.1	227 ± 23.8	13 ± 0.5	216 ± 16.4
6667.0				
10000.0	231 ± 9.4 ^p	397 ± 22.8	Toxic	290 ± 21.4
Trial Summary	Weakly Positive	Weakly Positive	Negative	Positive
Positive Control ²	1512 ± 142.1	2314 ± 14.0	1448 ± 150.5	2048 ± 71.3
Positive Control ³				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	10 ± 1.2	22 ± 0.9	10 ± 3.5	19 ± 3.5	9 ± 1.9
3.3		20 ± 0.0			
10.0		20 ± 1.2			
33.0		20 ± 2.3		13 ± 2.3	8 ± 1.5
100.0	16 ± 1.2	23 ± 4.5	19 ± 4.4	17 ± 1.9	7 ± 0.6
333.0	Toxic	17 ± 3.0	23 ± 3.3	20 ± 1.2	14 ± 0.6
1000.0	Toxic		41 ± 6.1	65 ± 4.3	30 ± 5.2
3333.0	Toxic		Toxic	101 ± 10.2	Toxic
10000.0	Toxic		Toxic		
Trial Summary	Negative	Negative	Positive	Positive	Weakly Positive
Positive Control ⁴			417 ± 40.2	392 ± 24.1	67 ± 7.7
Positive Control ³	1213 ± 63.9	1405 ± 64.6			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.7	14 ± 1.8	6 ± 1.9
3.3			
10.0		18 ± 2.2	
33.0		18 ± 0.9	12 ± 0.9
100.0	15 ± 1.5	19 ± 2.8	7 ± 1.8
333.0	26 ± 5.8	21 ± 1.2	19 ± 4.9
1000.0	27 ± 6.0	50 ± 7.2	43 ± 2.3
3333.0	Toxic	81 ± 15.0	Toxic
10000.0	Toxic		
Trial Summary	Weakly Positive	Positive	Positive
Positive Control ⁴	372 ± 28.3	421 ± 15.5	186 ± 7.1
Positive Control ³			

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.2	10 ± 2.0	9 ± 2.6	19 ± 2.0	7 ± 1.2
3.3		11 ± 2.0			
10.0		9 ± 0.6		17 ± 5.2	
33.0		8 ± 0.7		13 ± 1.8	
100.0	5 ± 1.2	9 ± 1.5	10 ± 0.3	16 ± 4.1	9 ± 2.6
333.0	1 ± 1.0	9 ± 0.9	8 ± 1.2	13 ± 1.5	10 ± 1.2
1000.0	0 ± 0.3		Toxic	19 ± 1.7	6 ± 2.0
1667.0					
3333.0	0 ± 0.0		Toxic		10 ± 0.9
6667.0					
10000.0	1 ± 0.6 ^P		13 ± 0.7 ^P		13 ± 1.5 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	609 ± 62.4		81 ± 26.4	66 ± 11.8	74 ± 6.9
Positive Control ⁵		879 ± 94.1			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	19 ± 1.5
3.3	
10.0	
33.0	
100.0	
333.0	
1000.0	20 ± 5.0
1667.0	Toxic
3333.0	16 ± 4.2
6667.0	14 ± 1.2
10000.0	26 ± 2.8
Trial Summary	Negative
Positive Control ⁴	213 ± 11.7
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	28 ± 2.9	34 ± 3.5	21 ± 3.0	22 ± 3.0	23 ± 4.0
100.0	23 ± 0.6	35 ± 7.1	19 ± 1.5		
333.0	25 ± 6.2	34 ± 0.3	20 ± 1.2	19 ± 2.3	20 ± 3.4
667.0				16 ± 0.3	23 ± 5.7
1000.0	28 ± 3.0	37 ± 4.3	51 ± 13.7	25 ± 4.2	31 ± 11.8
1667.0				21 ± 4.1	34 ± 5.7
3333.0	25 ± 3.0	46 ± 4.9	29 ± 8.6	Toxic	40 ± 12.3
6667.0				Toxic	
10000.0	28 ± 2.7 ^P	45 ± 1.0	26 ± 6.7 ^P		
Trial Summary	Negative	Equivocal	Equivocal	Negative	Weakly Positive
Positive Control ²		913 ± 42.5	2035 ± 78.1	192 ± 3.5	1065 ± 120.8
Positive Control ⁶	232 ± 20.5				

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	28 ± 2.3	42 ± 9.0	25 ± 1.5	23 ± 1.3	26 ± 4.2
100.0	31 ± 2.4	77 ± 21.2	25 ± 2.9		
333.0	35 ± 5.3	32 ± 7.2	19 ± 2.9		20 ± 4.2
667.0				24 ± 0.6	32 ± 3.9
1000.0	35 ± 3.9	50 ± 5.2	125 ± 23.5	43 ± 10.5	30 ± 2.0
1667.0				29 ± 8.6	46 ± 6.4
3333.0	38 ± 2.2	98 ± 4.0	148 ± 3.0	Toxic	48 ± 0.3
6667.0				Toxic	
10000.0	45 ± 6.6	Toxic	Toxic		
Trial Summary	Weakly Positive	Equivocal	Equivocal	Negative	Weakly Positive
Positive Control ²	1443 ± 34.1	1638 ± 74.5	1038 ± 92.0	712 ± 142.9	1911 ± 107.8
Positive Control ⁶					

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LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****